

CLAIMS

1. A ribonucleic acid molecule of about 21 nucleotides in length comprising nucleotide sequence complementary to RNA sequence of telomerase reverse transcriptase (TERT) gene, wherein said ribonucleic acid molecule comprises at least one 2'-sugar modification.
2. The ribonucleic acid molecule of claim 1, wherein said ribonucleic acid comprises at least one phosphate backbone modification.
3. The ribonucleic acid molecule of claim 1, wherein said ribonucleic acid comprises a cap structure at the 5'-end, or 3'-end, or both the 5'-end, or 3'-end.
4. The ribonucleic acid molecule of claim 1, wherein said ribonucleic acid molecule is single-stranded.
5. The ribonucleic acid molecule of claim 1, wherein said sugar modification is 2'-amino, 2'-C-allyl, 2'-fluoro, 2'-O-methyl, 2'-H, or any combination thereof.